

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A system for producing selected sounds in a space having a suspended ceiling, a plenum above the suspended ceiling, and a hard ceiling above the plenum, the system comprising: at least one flat panel transducer selectively positioned in the suspended ceiling for directing sound into the space when driven by an audio signal; an electronics module coupled to the flat panel transducer, the electronics module including a sound generator for generating audio signals and an amplifier coupled to receive audio signals produced by the sound generator, amplify the audio signals, and drive the flat panel transducer to produce sound corresponding to the audio signals; and a system controller in the electronics module coupled to the sound generator, the system controller being configured to receive control signals wirelessly from a remote location and to cause the sound generator to generate sound signals as directed by the control signals.

2. (Currently Amended) The system of claim 1 and further comprising a remote control unit for wirelessly transmitting control signals to the system controller to control the generation of sounds by the flat panel transducer.

3. (Currently Amended) ~~[[A]] The system for producing selected sounds in a space as claimed in~~ of claim 1 ~~[[and]] further comprising an audio effects unit in~~ ~~[[said]]~~ the electronics module, ~~[[said]]~~ the audio effects unit being coupled to ~~[[said]]~~ the sound generator and to ~~[[said]]~~ the system controller and being configured to receive control signals from ~~[[said]]~~ the system controller and to apply effects to the sound signals according to ~~[[said]]~~ the control signals.

4. (Currently Amended) ~~[[A]] The system for producing selected sounds in a space as claimed in~~ of claim 3 ~~[[and]] wherein~~ ~~[[said]]~~ the effects unit includes an audio equalizer.

5. (Currently Amended) ~~[[A]] The system for producing selected sounds in a space as claimed in~~ of claim 1 ~~[[and]] further including an audio enhancer in~~ ~~[[said]]~~ the electronics module ~~for improving,~~ wherein the audio enhancer improves the bass response of and intelligibility of spoken voice sounds produced by the flat panel transducer.

6. (Currently Amended) ~~[[A]] The system for producing selected sounds in a space as claimed in~~ of claim 2 ~~[[and]] wherein~~ ~~[[said]]~~ the remote control unit includes a radio frequency transmitter and ~~[[said]]~~ the system controller includes an antenna for receiving radio frequency transmissions from ~~[[said]]~~ the remote control unit.

7. (Currently Amended) ~~[[A]] The system for producing selected sounds in a space as claimed in~~ of claim 1 ~~[[and]]~~ further comprising an array of flat panel transducers mounted in the suspended ceiling, each flat panel transducer having an associated electronics module, ~~[[said]]~~ the remote control unit being adapted to transmit control signals to each speaker unit independently to control the sounds produced by each of ~~[[said]]~~ the flat panel transducers independently of the other flat panel transducers.

8. (Currently Amended) ~~[[A]] The system for producing selected sounds in a space as claimed in~~ of claim 1 ~~[[and]]~~ wherein ~~[[said]]~~ a central paging transmitter is mounted on the hard ceiling.

9. (Currently Amended) A system for projecting sound into a space, ~~[[said]]~~ the system comprising a plurality of audio transducers configured and positioned to direct sound into the space upon activation by an amplified audio signal, an electronics module including a sound generator and an audio amplifier associated with each of ~~[[said]]~~ the audio transducers for generating audio signals, amplifying the audio signals, and driving the corresponding audio transducer, a system controller in each of ~~[[said]]~~ the electronics modules for receiving control signals from a remote location and controlling the generation of audio signals by ~~[[said]]~~ the sound generator according to ~~[[said]]~~ the control signals, and a ~~[[remoter]]~~ remote controller for transmitting selected control signals to ~~[[said]]~~ the system controllers to control the production of sound by each of ~~[[said]]~~ the transducers independently of the others of ~~[[said]]~~ the transducers.

10. (Currently Amended) An architectural sound enhancement system comprising: an array of speaker units each having an audio transducer, a sound generator, an audio amplifier, and a system controller; ~~[[said]]~~ the system controller of each speaker unit being adapted to receive wireless control signals from a remote location and to control ~~[[said]]~~ the sound generator according to the received control signals; and a remote control unit for selectively transmitting wireless control signals to ~~[[said]]~~ the system controllers of ~~[[said]]~~ the speaker units to control the production of sound produced by ~~[[said]]~~ the units.

11. (Currently Amended) ~~[[An]]~~ The ~~architectural sound enhancement~~ system as ~~elaimed-in~~ of claim 10 ~~[[and]]~~ further comprising a paging transmitter for transmitting wireless paging messages, ~~[[said]]~~ the system controller of each of ~~[[said]]~~ the speaker units being adapted to receive paging messages wirelessly transmitted by ~~[[said]]~~ the paging announcement transmitter and to broadcast the paging messages into the space.

12. (Currently Amended) ~~[[An]]~~ The ~~architectural sound enhancement~~ system as ~~elaimed-in~~ of claim 10 ~~[[and]]~~ wherein ~~[[said]]~~ the audio transducers comprise flat panel transducers.

13. (Currently Amended) ~~[[An]]~~ The ~~architectural sound enhancement~~ system as ~~elaimed-in~~ of claim 10 ~~[[and]]~~ wherein ~~said speakers~~ the speaker units are mountable in a suspended ceiling grid.

14. (Currently Amended) ~~[[An]] The architectural sound enhancement system as~~
~~elaimed in~~ of claim 10 ~~[[and]]~~ wherein ~~[[said]]~~ comprising an array of speaker units and a
remote control unit, each speaker unit having: an audio transducer; a sound generator
which includes a library of stored sounds ~~and ; an audio amplifier; and a system~~
controller, the system controller of each speaker unit being adapted to receive wireless
control signals from a remote location and to control the sound generator according to the
received control signals; wherein the remote control unit selectively transmits wireless
control signals to the system controllers of the speaker units to control the production of
sound produced by the speaker units, wherein ~~[[said]]~~ the control signals include
directions to select sounds from ~~[[said]]~~ the library of stored sounds ~~for reproduction by~~
~~said speaker unit.~~

15. (Currently Amended) ~~[[An]] The architectural sound enhancement system as~~
~~elaimed in~~ of claim 14 ~~[[and]]~~ wherein ~~[[said]]~~ the system controller is adapted to receive
uploads of new sounds from ~~[[said]]~~ the remote control unit and to direct ~~[[said]]~~ the
sound generator to store the new sounds in ~~[[said sound]]~~ the library of stored sounds.

16. (Currently Amended) ~~[[An]] The architectural sound enhancement system as~~
~~elaimed in~~ of claim 10 ~~[[and]]~~ further including and audio effects unit in ~~[[said]]~~ the
speaker unit for adjusting the quality of sound produced thereby, ~~[[said]]~~ the system
controller being adapted to receive wireless effects control signals from ~~[[said]]~~ the
remote controller and to adjust ~~[[said]]~~ the effects unit according to the received control
signals.

17. (Currently Amended) ~~[[An]] The architectural sound-enhancement system as~~
~~claimed in~~ of claim 10 ~~[[and]] wherein [[said]] the~~ audio transducer is a flat panel
transducer and wherein ~~[[said]] the~~ speaker unit further includes an audio enhancer to
enhance the quality of sound produced by ~~[[said]] the~~ flat panel transducer.

18. (Currently Amended) ~~[[An]] The architectural sound-enhancement system as~~
~~claimed in~~ of claim 10 ~~[[and]] further comprising an audio pre-amplifier, [[said]] the~~
system controller being adapted to receive wireless volume control signals from ~~[[said]]~~
~~the~~ remote control unit and to adjust the volume level of ~~[[said]] the~~ audio pre- amplifier
according to ~~[[said]] the~~ volume control signals.

19. (Currently Amended) A system for producing selected masking sounds in a
space having a suspended ceiling, ~~[[said]] the~~ system comprising: at least one flat panel
transducer assembly selectively positioned in ~~[[said]] the~~ suspended ceiling for directing
sound into the space when driven by an audio signal; an electronics module coupled to
~~[[said]] the~~ flat panel transducer, ~~[[said]] the~~ electronics module including a masking
sound generator for generating masking sound audio signals and an amplifier coupled to
receive the masking sound audio signals produced by ~~[[said]] the~~ sound generator,
amplify the audio signals, and drive ~~[[said]] the~~ flat panel transducer to produce masking
sounds; and a system controller in ~~[[said]] the~~ electronics module coupled to ~~[[said]] the~~
sound generator, ~~[[said]] the~~ system controller for controlling the production of masking
sound audio signals by ~~[[said]] the~~ masking sound generator.

20. (Currently Amended) The system of claim 19 ~~[[and]]~~ wherein ~~[[said]]~~ the system controller is configured to receive control signals wirelessly from a remote location and to cause ~~[[said]]~~ the sound generator to generate sound signals as directed by the control signals.

21. (Currently Amended) The system of claim 19 ~~[[and]]~~ further comprising a pre-filter in ~~[[said]]~~ the electronics module for filtering the masking sound signals generated by ~~[[said]]~~ the masking sound generator.

22. (Currently Amended) The system of claim 21 ~~[[and]]~~ wherein ~~[[said]]~~ the pre-filter includes a predetermined dB pre octave filter for shaping the level of ~~[[said]]~~ the masking sound signals as a function of frequency.

23. (Currently Amended) The system of claim 22~~[[. and]]~~ wherein said dB per octave filter is a 4 dB per octave ~~[[filter]]~~ filter.

24. (Currently Amended) The system of claim 21 ~~[[and]]~~ further comprising a post filter in ~~[[said]]~~ the electronics module for shaping the pre-filtered masking sound signals to compensate for variations in the acoustic characteristics of a room in which ~~[[said]]~~ the system is installed.

25. (Currently Amended) The system of claim 20 ~~[[and]]~~ wherein ~~[[said]]~~ the system controller is further configured to receive radio frequency transmissions including ancillary audio program material to be reproduced by ~~[[said]]~~ the flat panel speaker.

26. (Currently Amended) The system of claim 25 ~~[[and]]~~ wherein ~~[[said]]~~ the ancillary audio program material includes paging signals.

27. (Currently Amended) The system of claim 25 ~~[[and]]~~ wherein ~~[[said]]~~ the ancillary audio program material includes background music signals.

28. (Currently Amended) A flat panel speaker system for installation in a suspended ceiling grid, ~~[[said]]~~ the flat panel speaker system comprising a flat panel transducer, a masking sound generator for generating masking sound signals, an audio amplifier for amplifying the masking sound signals and driving the transducer to produce and project masking sounds, and a system controller for controlling the production of masking sound signals by ~~[[said]]~~ the masking sound generator.

29. (Currently Amended) ~~[[A]]~~ The flat panel speaker system as claimed in of claim 28 ~~[[and]]~~ further comprising a radio frequency receiver in ~~[[said]]~~ the controller for receiving radio frequency signals and controlling ~~[[said]]~~ the masking sound generator in response thereto.

30. (Currently Amended) ~~[[A]] The flat panel speaker system as claimed in~~ of
claim 29 ~~[[ad]]~~ wherein ~~[[said]]~~ the receiver also receives ancillary audio program signals
and wherein ~~[[said]]~~ the controller is configured to direct said received signals to ~~[[said]]~~
the audio amplifier for reproduction by ~~[[said]]~~ the flat panel transducer.